

# Standards of Public Land Health

## Evaluation of 62027 PUERTO SPRING Allotment

### [ 10/08/2010 ]

The Roswell Field Office conducted rangeland health assessments at 1 study site within 62027 PUERTO SPRING. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
62027-IDSU-A035	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on the Puerto Spring allotment, 62027. Ten of these assessed soil site stability, 11 hydrologic functions and 13 assessed biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected at the trend study plot locations within the allotment were utilized to make rangeland health determinations. Quantitative evaluations are performed by the Roswell Field Office interdisciplinary teams, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. The collections which were initiated in the late 1970's/early 1980's, are scheduled and conducted approximately every 5 years. This allotment is in the "C" (Custodial) category.

This allotment contains 40 acres of public land. The study is located on one ecological site; Loamy CP-2. A majority of the indicators for this location fell into the None to Slight category or the Slight to Moderate category. The indicator for Invasive species was rated as a Moderate departure from the ecological site description due to the presence and the amount of juniper. The interdisciplinary team estimated the production on this location to be approximately 80% of annual production, due to the influence of juniper. Other indicators that are being influenced by the presence of juniper are Invasive plants and Functional Structural Groups.

There are no riparian areas on the public land within this allotment.

**Recommendations:** With the majority of the indicators falling in the None to Slight category or Slight to Moderate, this allotment is rated as "Meeting" the standards for Rangeland Health. Continue the rangeland monitoring studies to insure proper stocking rates are maintained and that the perennial grass cover and good plant composition remains. There is a potential to work with other agencies, such as the New Mexico State Land office or the Natural Resource Conservation Service (USDA-NRCS) to map and discuss the feasibility of implementing a vegetation treatment to reduce the amount of juniper if warranted. This would not be economical

if only applied to the 40 acres of public land. As the juniper population appears to be young seedlings to sapling stage, a potential and effective treatment in the form of a prescribed burn could be used to limit the amount of juniper. This treatment would also be effective in controlling the cholla as well.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 62027-IDSU-A035			
Legal Land Desc	NWNE 4 0060N 0210E Meridian 23	Acreage	40
Ecosite	070BY052NM LOAMY CP-2	Photo Taken	Y
Watershed	13060001190 GUADALUPE MINE		
Observers	ORTEGA & TRAUTNER	Observation Date	10/08/2010
County Soil Survey	NM019 GUADALUPE	Soil Var/Taxad	
Soil Map Unit	093	Soil Taxon Name	PASTURA
Texture Class	NM019 L	Soil Phase	PASTURA
Texture Modifier	NM019 LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation		NOAA Growing Season Precipitation	
NOAA Avg Annual Precipitation		NOAA Avg Growing Season Precipitation	
Disturbances and Animal Use:			

Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns					X
Comments:						
S H	Pedestals and/or Terracettes					X
Comments:						
S H	Bare Ground					X
Comments:						
S H	Gullies					X
Comments:	as expected for this site					

S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion					X
Comments:						
S H B	Soil Surface Loss or Degradation					X
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	Juniper and cholla influence					
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:	Juniper higher than expected					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount					X
Comments:						
B	Annual Production					X
Comments:						
B	Invasive Plants			X		
Comments:	Juniper seedlings and scattered cholla					
B	Reproductive Capability of Perennial Plants					X
Comments:	A lot of visible seed heads					
S	Physical/Chemical/Biological Crusts					X
Comments:						
B	Wildlife Habitat					X
Comments:						
B	Wildlife Populations					X
Comments:						

B	Special Status Species Habitat					
Comments:	Not applicable					
B	Special Status Species Populations					
Comments:	Not applicable					
<b>Part 3. Summary</b>						
A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.						
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	0	10
H	Hydrologic	0	0	0	1	10
B	Biotic	0	0	1	1	9
B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the <i>Does not Meet</i> column, Moderate becomes <i>May Need More Info</i> , and Slight to Moderate and None to Slight merge to form the <i>Meets</i> columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.						
Attribute	Rationale	Does Not Meet	May Need More Info	Meets		
Soil		0	0	10		
Hydrologic		0	0	11		
Biotic		0	1	10		
Site Notes: Juniper encroachment into the flatter country from the rocky bluffs. Almost no utilization of forage species is occurring. Key grass species are all present.						

# **Determination of Public Land (Rangeland) Health for 62027 PUERTO SPRING**

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, including Native, Threatened, Endangered and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on these assessments, it is my determination that public land within the Puerto Spring allotment, #62027, meets the (1) Upland Sites Standard and (2) Biotic communities, including Native, Threatened, Endangered and Special Status Species Standard. There are no public land Riparian areas on this allotment therefore this standard was not addressed.

/s/ J. Howard Parman  
Assistant Field Manager

01/26/2011  
Date